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Breslow et al.

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[54] **POTENT INDUCERS OF TERMINAL DIFFERENTIATION AND METHODS OF USE THEREOF**

[75] Inventors: Ronald Breslow, Englewood, N.J.;
Paul A. Marks, Bridgewater, Conn.;
Richard A. Rifkind, New York, N.Y.;
Branko Jursic, New Orleans, La.

[73] Assignees: Sloan-Kettering Institute for Cancer
Research; The Trustees of Columbia,
both of New York, N.Y.

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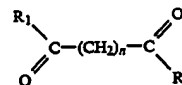
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Primary Examiner—C. Warren Ivy
Assistant Examiner—Raymond Covington
Attorney, Agent, or Firm—John P. White

[57] **—SA ABSTRACT**

The present invention provides the compound having the structure:



wherein each of R₁ and R₂ are independently the same as or different from each other; when R₁ and R₂ are the same, each is a substituted or unsubstituted arylamino, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amine, or thiozoleamino group; when R₁ and R₂ are different, R₁=R₃—N—R₄, wherein each of R₃ and R₄ are independently the same as or different from each other and are a hydrogen atom, a hydroxyl group, a substituted or unsubstituted, branched or unbranched alkyl, alkenyl, cycloalkyl, aryl, alkyloxy, aryloxy, arylalkyloxy, or pyridine group, or R₃ and R₄ bond together to form a piperidine group and R₂ is a hydroxylamino, hydroxyl, amino, alkylamino, dialkylamino or alkyloxy group; and n is an integer from about 4 to about 8.

The present invention also provides a method of selectively inducing terminal differentiation of neoplastic cells and thereby inhibiting proliferation of such cells. Moreover, the present invention provides a method of treating a patient having a tumor characterized by proliferation of neoplastic cells. Lastly, the present invention provides a pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically acceptable amount of the compound above.

17 Claims, No Drawings

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